



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Chesnut *et al.*

Appl. No. 10/005,876

Filed: December 7, 2001

For: **Methods and Compositions for
Synthesis of Nucleic Acid
Molecules Using Multiple
Recognition Sites**

Confirmation No. 7958

Art Unit: 1636

Examiner: Ketter, J.S.

Atty. Docket: 0942.5340002/RWE/BJD/JKM

Sixth Supplemental Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each document is provided.

The numbering on this Sixth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fourth and Fifth Supplemental Information Disclosure Statements filed June 1, 2004, in connection with the above-captioned application.

The Examiner's attention is directed to the following co-pending U.S. Patent Application, which is directed to related technical subject matter:

U.S. Patent Application No. 10/893,235, Hartley, *et al.*, filed July 19, 2004 and submitted herewith as document **AS116**;

The identification of this U.S. Patent Applications is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

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This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Chesnut *et al.*
Appl. No. 10/005,876

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

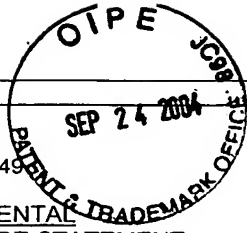
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a stylized flourish at the end.

Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

Date: Sept. 24, 2004
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Washington, D.C. 20005-3934
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FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.5340002/RWE/BJD/JKMAPPLICATION NO.
10/005,876FIRST NAMED INVENTOR
Chesnut *et al.*FILING DATE
December 7, 2001ART UNIT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
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	AK9	2003/0220249	11/27/2003	Hackett <i>et al.</i>			02/07/2003

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP9	WO 02/00875	01/03/2002	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>116</u>	Ohara, O. and Temple, G., "Directional cDNA library construction assisted by the <i>in vitro</i> recombination reaction," <i>Nucleic Acids Research</i> 29:e22(1-8), Oxford University Press (February 15, 2001).
	AS	<u>116</u>	Co-Pending U.S. Patent Application No. 10/893,235, Hartley <i>et al.</i> , filed July 19, 2004 (Not Published).
	AT	<u>116</u>	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Research</i> 10:1288-1795, Cold Spring Harbor Laboratory Press (November 2000).

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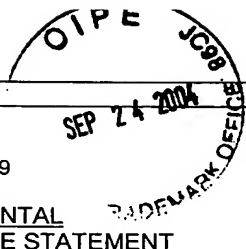
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL10	WO 02/16594	02/28/2002	WIPO			Yes No
	AM10	WO 01/31039	05/03/2001	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>117</u>	Heyman, J.A. <i>et al.</i> , "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," <i>Genome Research</i> 9:383-392, Cold Spring Harbor Laboratory Press (1999).	
AS	<u>117</u>	Invitrogen Online Catalog, http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html (accessed July 7, 2004).	
AT	<u>117</u>	Invitrogen Online Catalog, http://invitrogen.com/content.cfm?pageid+3371&cfid=16767784&cftoken=62396683 (accessed July 7, 2004).	

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	AR	<u>118</u>	Russell, M., "A recombination-based cloning system that decreases time to protein analysis," <i>American Biotechnology Laboratory</i> 18:8-10, International Scientific Communications, Inc. (June 2000).
	AS	<u>118</u>	Sinclair, B., "Honing Your Cloning," <i>The Scientist</i> 14:29-32, The Scientist, Inc. (August 21, 2000).
	AT		

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA10	4,808,537	02/28/1989	Stroman <i>et al.</i>			10/30/1984
	AB10	4,855,231	08/08/1989	Stroman <i>et al.</i>			09/25/1985
	AC10	4,959,217	09/25/1990	Sanders <i>et al.</i>			05/22/198
	AD10	5,654,182	08/05/1997	Wahl <i>et al.</i>			06/07/1995
	AE10	2002/0106797-A1	08/08/2002	Miles <i>et al.</i>			03/12/2001
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	AL						Yes No
	AM						Yes No
	AN10	WO 92/15694 A1	09/17/1992	WIPO			Yes No
	AO10	WO 00/12687 A1	03/09/2000	WIPO			Yes No
	AP						Yes No

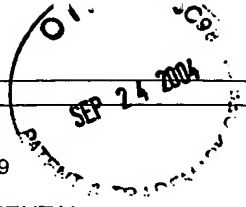
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT	<u>118</u>	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)

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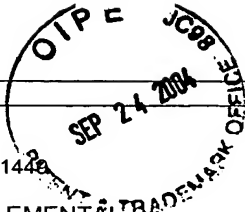
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	AR	<u>119</u>	Benoist, C. and Chambon, P., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
	AS	<u>119</u>	Botstein, D., <i>et al.</i> , "Making mutations <i>in vitro</i> and putting them back into yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)
	AT	<u>119</u>	Broach, J.R., "The Yeast Plasmid 2 μ Circle," <i>Cell</i> 28:203-204, MIT (1982)

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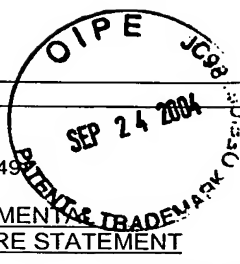
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>120</u>	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription -translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AS	<u>120</u>	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (1996)
	AT	<u>120</u>	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)

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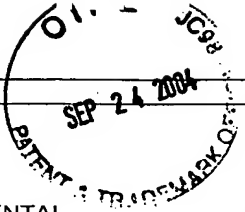
	AR	<u>121</u>	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
	AS	<u>121</u>	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)
	AT	<u>121</u>	Gottesman, S., "Bacterial regulation: Global regulatory networks," <i>Ann. Rev. Genet.</i> 18:415-441, Annual Reviews, Inc. (1984)

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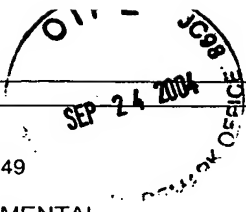
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>122</u>	Guo, F., <i>et al.</i> , "Structure of the Cre recombinase complexed with DNA in a site-specific recombination synapse," <i>Nature</i> 389:40-46, Nature Publishing Group (September 1997)
	AS	<u>122</u>	Hallet, B. and Sherratt, D.J., "Transposition and site-specific recombination: adapting DNA cut-and-paste mechanisms to a variety of genetic rearrangements," <i>FEMS Microbiol. Rev.</i> 21:157-178, Elsevier Science B.V. (September 1997)
	AT	<u>122</u>	Hamer, D.H. and Walling, M., "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>J. Mol. Appl. Genet.</i> 1:273-288, Raven Press (1982)

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	AR	<u>123</u>	Hanks, S.K. and Hunter, T., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596, The Federation of American Societies for Experimental Biology (1995).
	AS	<u>123</u>	Huang, L.-C., <i>et al.</i> , "Convenient and Reversible Site-Specific Targeting of Exogenous DNA into a Bacterial Chromosome by Use of the FLP Recombinase: the FLIRT System," <i>J. Bacteriol.</i> 179:6076-6083, American Society for Microbiology (October 1997).
	AT	<u>123</u>	John, Jr., J.F. and Twitty, J.A., "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Rev. Infect. Dis.</i> 8:693-704, University of Chicago Press (1986)

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	AR	<u>124</u>	Johnston, S.A., and Hopper, J.E., "Isolation of the yeast regulatory gene <i>GAL4</i> and analysis of its dosage effects on the galactose/melibiose regulon," <i>Proc. Natl. Acad. Sci. USA</i> 79:6971-6975, National Academy of Sciences (1982)
	AS	<u>124</u>	Kendall, K.J., and Cohen, S.N., "Plasmid transfer in <i>Streptomyces lividans</i> : Identification of a kil-kor System Associated with the Transfer Region of pIJ101," <i>J. Bacteriol.</i> 169:4177-4183, American Society for Microbiology (1987)
	AT	<u>124</u>	Lyznik, L.A., <i>et al.</i> , "Activity of yeast FLP recombinase in maize and rice protoplasts," <i>Nucleic Acids Res.</i> 21:969-975, Oxford University Press (1993)

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APPLICATION NO.
10/005,876

FIRST NAMED INVENTOR
Chesnut *et al.*

FILING DATE
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ART UNIT
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U.S. PATENT DOCUMENTS

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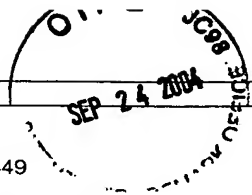
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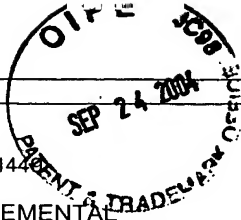
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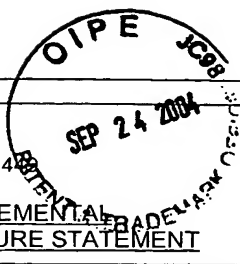
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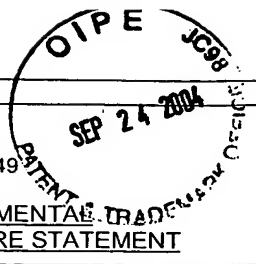
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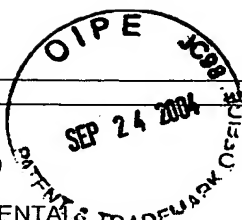
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